Fourteenth Year.—No. 1.

MILWAUKEE, JANUARY, 1889.

Subscription Price, \$1.00 Per Year.

OUR LONDON LETTER.

Retirement of a Prominent English Engineer. -Decision in an Important Milling Cause,-Description with Illustration of a Valuable Weighing and Mixing Machine, Etc., Etc. [Our Correspondent's letter arrived too late for publication in our December number, and we therefore omit the first part of it referring to trade condi-

Mr. J. Harrison Carter of 82 Mark Lane E. C. has retired from business as milling engineer and is succeeded by Messrs. E. R. and F. Turner of Ipswich who during the past 12 years have manufactured the greater part of his machinery, having purchased his stock and Interest. Mr. Carter who is one of the most gentlemenly men in the milling trade, now intends to give most of his time to politics and no doubt Parliament.

with costs. The points raised in the defense were all decided in favor of the plaintiffs (milling engineers.) The plaintiffs sought to recover from the defendants the balance due upon anaccount of machinery supplied and for work done in the defendants mill. The claim was resisted by the defendants, who set up an answer, and then filed a counter-claim by which they insisted that the plaintiffs were liable to them in respect of large damages in consequence of defects in the machinery supplied. The case was one of great interest and the week's fight was spoken of during the time it lasted and for nine days after, on every corn market.

As promised in my last letter, annexed will be found a de-

into the machine.

mill proper, wheat cleaning department with the correct weight of wheat nine millions. Most of the missing and silo being separated by thick fire -each one of which can be varied to twenty millions of 1888 had been furproof walls, and having no communica- any proportion, the scale hoppers untion with each other; except, by the load themselves simultaneously. On from which this year less than half the Mixer, which was patented in August discharged, and to withdraw the arc-

iron galleries outside the building the main-driving shaft is a pinion, which supply of 1887 has emanated. Eastern communicating on each floor. The drives a spur-wheel fixed on a shaft Europe has made good the American silo which has only lately been above. (See illustration.) This latter finished is found to work most satis- shaft revolves inside a hollow shaft, factorily and, as mentioned in my upon which are fixed the necessary last letter has 23 bins with hoppered cams to lift the wheat weighing recepbottoms. The Wheat Weigher and tacles into position after they have been 1884, by W. J. D. Thomlinson, engineer valves from over the delivery spouts of of the Soho Iron Works, Rochdale, is the feed spouts. The hollow shaft is placed immediately under the bins, to brought into gear with a rachet wheel enable the wheat to be spouted direct fixed on the driving-shaft, when the detention fingers have released a bar which The machine has ten weighing hop- does not take place until all the weighwe shall soon see him a Member of pers and a capacity of 750 bushels ing hoppers have received their proper per hour. The illustration shows quantity of wheat, so that until the his own country. Probably by its Mr. Justice Mathew delivered judg- a machine with three receiving hop- proper quantity of wheat is in each rement in the case of Nunden, Armfield pers, but is of the same principle and ceptacle the hollow shaft remains at bly lowered the market price of that re-& Co. v. Marriage, Neave & Co., for the construction as those with more hop-rest. The wheat is discharged from the quired for home consumption. In adplaintiffs on the claim and counter-claim pers. The hoppers or scale receptacles wheat scales simultaneously by cams dition to the agricultural profit is the

TOMLINSON'S WHEAT WEIGHER AND MIXER.

scription of the New Wheat Weigher | are suspended from weighing levers, | also fixed on the revolving shaft, which of the extreme production of the and Mixing Machine, that was erected and the various qualities of grain are by an arrangement of levers press open native soil, the modification in the at the Deptford Bridge Flour Mills, conveyed separately from their respective catches at the bottom of the hoppers course of British food imports would Greenwich, during last October. These tive bins to the weighing hoppers or to and allows the wheat to fall into a large imply a benefit to the Union rather mills are very conveniently situated as many as may be required. The for flour manufacture, being con-feeding shoots conveying the grain to nected with the river Thames by a the scale hoppers below (see illustration) tidal dock. The wheat is unloaded are provided with valves which are by means of a grain elevator direct kept open by means of levers. The from the barges to one of the twenty- frame of the machine supports a re-

bin below the machine.

L. MAYGROVE.

BRITISH GRAIN IMPORTS.

one bins in the silo and after hav- volving shaft, which imparts move- remarkable recent instance of the is so much the poorer for the phenoming been mixed with other varieties ment to a rocking shaft on which are smoothness of the operation of trade enon. That is all matter of course, for by the Wheat Weigher and Mixer fingers that vibrate to and fro. When under neutral conditions. During the which the chances of seasons are acis cleaned in the wheat cleaning depart- any one of the scale hoppers has re- eleven months of 1888 ending on No- countable. Western America had this ment adjoining, after which process it ceived the specific weight of grain and vember 30, Great Britain imported a past year comparatively meagre haris reduced to flour and offal in the descends, its lever frame interposes a little more than sixty-seven million vests, and Russia, by a coincidence forroller mill proper. The Deptford part between the corresponding vibrat hundredweight of wheat and flour. In tunate for her even more than for Bridge Flour Mills have under one roof ing finger and the locking catch, the corresponding eleven months of Great Britain, enjoyed splendid weather two distinct roller plants, together whereby the latter is knocked off a bar 1887 the foreign supply was practically and enormous crops. The more curihaving a capacity of a little over 1000 which by this means becomes disenthe same. Only, the growers of the ously pleasant, though perfectly natubarrels of flour per day and the whole gaged. The valve at the bottom of the great bulk of the import in the two ral, result for the British consumer is block of buildings present a pleasing shoot supplying the scale hopper is years happened to be different. Forty- that, amidst the extraordinary market Structurally the build- closed by the downward movement of nine million hundredweight came in permutations and vicissitudes, he has ing is arranged so as to minimize the the scale hopper. When all the the earlier period from North and been enabled to eat his loaf at the same

nished in 1887 by the United States, deficiency, and especially Russia. An increase of fifteen million hundredweight has come from Russia, which has sent four times as much as in the corresponding eleven months.

The transfer represents a vast loss to the United States, and a proportionally greater gain to the Russian Empire. Much of the price paid by Englishmen for the grain and flour is like a windfall to the Russian farmer. The surplus of his harvest would have been of little monetary value to him if left in mere presence it would have considera-

profit or profits to a crowd of interests employed in the change of hands, and of nam relities, undergone by the wheat in transit. That which Russia has been acquiring in these incidental ways has been, there can be no doubt, abstracted, more or less, from the United States. Circumstances might be imagined in which the shifting of the British wheat supply would have no such effect. If the United States had suddenly turned capital, labor and acreage to some new purpose, the with drawal of the foreign custom for twenty million hundredweight of wheat would not matter. So, again, if the American population and demand for food had risen, as sooner or later it will, to the level

hoppered spout, which carries it to the than the reverse. Nothing of the kind can be suggested to explain the alteration in the source of British bread. So much English money simply has been going into Russia instead of West Sir James Caird called attention to a American pockets: and America simply risk of fire so far as possible, the roller scale hoppers have been loaded South America, and in the later twenty-price within a fraction that he ate it Write for a copy of our new Bolting Cloth Order Book.

last year. He has not been in the least conscious, unless he were engaged in the preparation of agricultural statis- of food in the shape of bread, mush, tics, that Russia, and no longer America, has been growing this staple grain.

British consumer thus to preserve a cooking it, and its general healthfulplacid indifference to the ultimate ness as an article of diet. Pamphlets choice among the candidates for the setting forth the same facts in English, office of his wheat grower. In the first French and German will also be displace, his wealth is concerned. No set tributed. For the exhibit the proof foreign farmers and dealers has any doubt of his solvency. He goes round is hardly appreciated at all in Europe, the world's markets with ready cash, and that if the possibilities of the grain or equivalent credit, and has but to select without fear of demur. He is not country would quickly be increased merely a good, but a known customer. many fold. To introduce corn to the All the farming interests on the earth grow with an eye to his possible advent as a buyer, and facilitate his arrangements. On his part he has provided himself with the best equipment | cornmeal, while France took only 1,for annihilating space and distance. Whether the cornfields which for the time have caught his preference be in India, Bessarabia, Tennessee, Winnipeg in this country." For the exhibit a or Chili, makes little or no difference space with eighty feet of frontage is to him. He is prepared with means of said to have been secured. transport which minimize the topographical dissimilarities. Free trade has imparted to British traffic in corn as automatic a flow as the common sense of the commercial States has given to exchanges in the money market. As bullion by a self-adjusting process passes, wherever it is wanted and valued, so corn passes, whenever it is wanted, into British ports.—London Times.

A CORN PALACE TO GO TO PARIS.

The New York Times says that "the plan for a corn exhibit at the Paris Exposition is receiving a good deal of attention on the New York Produce Exchange, where designs for the 'corn known St. Louis miller makes the folpalace' to be shown at the exposition lowing reply which will no doubt have been displayed for some days. make good reading for editors of such The supervision of the exhibit will be dailies as desire to give the public the under the control of the agricultural plain truth: department of the American commission, although it is expected to raise the \$30,000 estimated to be needed to meet the expenses by subscriptions. The exhibit will include a pavilion, the roof, columns and chimney of which will be built of the corn fodder, and the interior and exterior will be covered with the corn-stalk and ear. A good deal of mosaic work with corn grains of varied colors and a number of figures and emblems, all in corn, will be shown. Photographs of Corn Exchanges in this country and big maps showing the corn-growing districts of the country will be included in the display. From an American kitchen, equipped with American ranges, cooks meet the expenses by subscriptions.

will distribute free of charge all the known preparations of corn as an article puddings, etc. A competent man will deliver short lectures every hour on the Several agencies join in enabling the uses of corn, the way of preparing and moters say that the use of corn as food were understood exports of it from this people of Europe is the great object of the exhibitors, who say that Germany last year bought of us only 2,638,137 bushels of the grain and 403 barrels of 958,750 bushels and 60 barrels of meal. Last year the total export of corn is put at only 1.70 per cent. of the production

THE MILLERS' COMBINE.

The St. Louis Post Dispatch of Jan. 5, contained the following editorial:

"The flour mills have been reduced to half capacity under the operation of the newly formed flour trust. The millers assert that this is not done to increase the price of flour, but if there is any other object that can be obtained by decreasing the supply, the millers are respectfully urged to furnish it. The bulk of the winter wheat has

been purchased, and the millers propose that consumers shall pay good prices for the flour ground out of it. This is sad news for the poor people who must have bread."

To this Alex. H. Smith the well-

To the Editor of the Post-Dispatch:

Refering to your editorial allusion to flour mills Saturday, I beg to state that there are other reasons than the desire to increase the price of flour for limiting the production to half the average capacity of the mills temporarily.

named, which has been followed by flour named, which has been followed by hother prices as reference to your daily reports, show the cost price of flour is not yet cheap enough to attract export orders, and with milling capacity largely exceeding domestic demand the only remedy was the one adopted to reduce the manufacture to near the requirements of the only trade open to us.

ments of the only trade open to us.

As a matter of fact the action you criticise (doubtless without due consideration) has re-(doubtless without due consideration) has reduced the price of flour by first diminishing the demand for wheat and consequently bringing the cost down. You say that "the wheat bas been bought," but we say it is not wholly or even generally owned by millers. Have you forgotten the "September corner" and that under the modern system of specularity that which the specularity was all the special and the special and the service of the second specularity was all the service of the servic

and that under the modern system of specula-tion the visible supply is usually owned and used by manipulators?

If the wheat is out of farmers hands and millers in self-defense take united action to bring the price of the raw material and the manufactured article into their proper and reasonable positions, are they therefore to have the stigma of "trust" attached to their avoidance of destruction?

The market records prove the assertion

have the stigma of "trust" attached to their avoidance of destruction?

The market records prove the assertion that so far the action of the millers has reduced prices. With an admitted deficiency in the last winter wheat crop and nearly a failure of the spring wheat crop, full milling would deplete the supply, increasing its price and as surely by adding to at present unsalable flour stocks depress the prices, working double destruction to millers, whereas, by the conservative policy forced on them, the country may be carried through to the next crop without violent changes or extreme prices. No trade can be expected to deliberately commit "harikari." No manufacturer is under any moral or other obligation to continue to make and pile up unsaleable goods on penalty of being charged by the newspapers with running a "trust" or oppressing the poor.

This is simply an economic question which is open to fair discussion, and the newspapers should treat it as such in a spirit of fairness. If the facts are found to be as herein stated, tell your readers so. If flour is really considerably cheaper than it was before the millers made the move complained of, tell them so, and do not mislead them by the catch phrases of the hour. They know that the wholesale price of extra fancy flour in St. Louis at \$4.75 per barrel is not dear and they know that if it was saleable at any profit the mills would not reduce their manfacture. This is not a defense, but simply a correction; no defense is required if the facts are stated.

STEAM HEATING OF PASSENGER CARS.

STEAM HEATING OF PASSENGER CARS.

To the Chicago, Milwaukee & St. Paul Railway belongs the credit for first having brought the matter of steam heating of cars into general notice; to that company belongs the credit of being the first western road which has brought its experiments to a successful issue, and to that company the traveling public will be indebted for its taking the initiative in equipping its principal through trains with this comfort-producing and life-saving apparatus.

In order to explain the manner in which the cars are heated, the following is furnished by Mr. George Gibbs, Mechanical Engineer of the Chicago, Milwaukee & St. Paul Rail-

The steam is taken direct from the locomo tive boiler through pressure regulating and safety valves, which allow low pressure

made for properly ventilating cars by an arrangement in each of "indirect heating" radiators, very similar to stacks in the cellars of houses heated by steam, so that the motion of the train forces in large volumes of heated fresh air.

This feature in connection with a device used for automatically regulating the temper ature to a fixed point, say 70 degrees, assures the highest attainable degree of comfort in a changeable winter climate.

TRADE. NOTES.

THE Milwaukee Bag Company report business GOOD. Their goods and prices meet the wants of millers and grain dealers.

BURNHAM BROS., York, Pa., report the demand for water-wheels already good. Their's, is an old firm and their wheels are well-

THE Prinz & Rau Manufacturing Company report a strong demand for their special machinery, not only from millers, but from brewers and maltsters. See their adv. on back page.

B. H. & J. Sanford, of Sheboygan Falls, Wis., manufacturers of water-wheels believe that they can convince anyone wanting a a wheel that they make as good a one as can be had and for a reasonable price.

THE Goodyear Rubber Company are prepared to supply anything in the way of belting, hose and rubber goods. They have depots in Milwaukee, Minneapolis and St. Paul. Note their adv. and write to them

THE annual banquet of the Geo. T. Smith Middlings Purner Co., to its officers, agents and invited guests at Jackson, Mich., was a very pleasant affair, and passed off without a single unpleasant feature to mark the occasion.

MESSRS. EDW. P. ALLIS & Co., of Milwaukee, have recently received an immense importation of bolting cloth of the best brand known to the trade. Their works are kept pretty busy, especially their engine depart-

THE Bradford Mill Company, Cincinnati, O., report business good. The demands upon them for their celebrated "Dunlap Bolt" keep one department of their institution more than busy. Millers should have their latest catalogue on hand for reference.

In their advertisement on the back page of this paper the Superlative Purifier Company publish a letter from Homer Baldwin, of Youngstown, O. Millers' generally know Mr. Baldwin to be one of the most expert millers in this or any other country, and his views carry great weight with them. Read the letter.

S. Howes, of Silver Creek, N. Y., finds it necessary to run his works to full capacity to supply the demand for his "Eureka" machines. By the way, Mr. Howes was recently the recipient of a present of an elegant easy chair from his employes. Mr. Howes annual presents to his employes are in the shape of substantials which prove of physical benefit

WE will furnish any one in the United States or Dominion of Canada, for one year, with THE UNITED STATES MILLER and The Northwestern Miller, for \$8.25; including "50

THE C., I., St. L. & C. Ry. (Kankakee Line) is the best line to Cincinnati, Richmond, Va., Newport News, Washington, Baltimore, Chattanooga, Atlanta, Savannah, Charleston, Jacksonville, St. Augustine, Thomasville, radiator piping along the sides for heating Pensacola, Mobile, New Orleans, and all

United States Miller.

E. HARRISON CAWKER, EDITOR.

PUBLISHED MONTHLY. OFFICE, NO. 194 GRAND AVENUE, MILWAUKEE. SUBSCRIPTION PRICE—PER YEAR, IN ADVANCE. For estimates STATES MALLER.

[Entered at the Post Office at Milwaukee, Wis., as mail matter of the second-class.]

MILWAUKEE, JANUARY, 1889.

We respectfully request our readers when they write to persons or Arms advertising in this paper, to mention that their advertisement was seen in the UNITED STATES MILLER. You will thereby oblige not only this paper, but the advertisers.

MILWAUKEE AMUSEMENTS.

ACADEMY OF MUSIC-First-class theatrical entertainments every evening. Matinees Wednesdays, Saturdays and Sundays, at 2 p. m.

STANDARD TREATER (South-side)-Every evening; matinees Saturdays and Sundays, at 2 p. m

GRAND AVERUR THEATER AND MUSEUM-Open daily from 10 a. m. to 10 p. m.

STADT THEATER (German)—Wednesday and Sunday evenings.

PROPLE'S THEATER-Choice variety performances every evening; matinees Tuesdays, Fridays and Sundays, at 2 80 p. m.

PUBLIC MUSEUM, Exposition Building-Open daily: admission free.

LATTON ART GALERY-Open daily. Free admiselon Tuesday, Thursday and Saturday.

WITH this number the UNITED STATES MILLER enters the fourteenth year of its existence and resumes its former size of page. This edition contains but eight pages. We shall increase the number of pages as rapidly as we can do so in justice to ourselves. We shall maintain a very large circulation, and do not doubt but our efforts in that direction will prove entirely satisfactory to all advertisers. We shall publish a paper of interest and value to the trade in all its branches, and we may add here that we will pay considerable at tention to appropriate illustrations.

HARVESTING is progressing in Australia and the Argentine Republic. The former has no wheat for export and the latter will it is anticipated have about 8,000,000 bushels of wheat for export by March 1.

A Convention of winter wheat millers will be held in Indianapolis, Tuesday, Feb. 5, 1889. A large attendance is desired and expected. Matters of great importance to the trade in general will be discussed and acted upon.

THE "50 Novels" advertised in another place as a premium with the U. S. MILLER make unquestionably the best premium ever offered. We have from 94 to 98 in acreage and average condino particular significance to be attached tism. Of wheat in farmers' hands, Missouri to the gain. For three years preceedcountry. We may not be able to keep reports larger, three states report about the this offer open long. reports larger, three states report about the ing that ended December 31, 1888, that there are less than 600 flour mills there has be a decrease in the total and in this country that have a capacity of this offer open long.

THE Holiday number of the Journal de la Meunerie, Paris, France, is the largest yet produced. It contains considerably over a hundred pages and is well illustrated and full of good technical as well as appropriate miscellaneous reading matter.

THE cotton bagging trust died according to appointment Jan. 1. The members of the trust admit that they made some money but not as much as they expected to, as outsiders owned a large amount of bagging which was placed on the Market.

EDW. P. ALLIS & Co. have just issued a very neat and convenient little States Jan 21, rendered an opinion in Miller's National Association who ex-prominent miller said at the recent celebrated Dufour bolting cloths and Refrigeration Company, appellant, vs. suit for patent, infringements against our large spring wheat millers and 200

ordering, which they will be glad to send to all millers requesting a copy.

THE Farmer's Annual State Convention will meet in Madison, Wis., Feb. 5, 6, 7 and 8, in the Assembly Chamber. The railroads have made special excursion rates of half fare to Madison from all parts of the State for this occasion. All residents of the State are invited to attend.

THE Canadians want letter postage reduced to two cents per ounce and England wants ocean postage reduced to two cents. That postal rates everywhere should be reduced to the lowest point possible consistent with the expense of carrying and distributing the mails is generally admitted.

The New York Commercial and Shipping List of late date says:

THE all but enthusiastic confidence with which merchants generally regard business prospects for the incoming year is significant. The stagnation in the wheat export trade is the saddest and most noteworthy exception. Speculative booms have driven into other channels, and other countries are reaping the advantage of it.

HAVE you a wife, daughter or sweetheart? If so, send \$1.10 for a copy of The Ladies' Home Companion and THE UNITED STATES MILLER. Both papers for one year for \$1.00. The former is published twice a month, and is a beautiful 16-page paper. Address The U. S. MILLER, Milwaukee, Wis.

THE Minneapolis Tribune gives a glowing account of the extent of the flour industry in Minneapolis and the number of people benefited thereby. Milwaukee cannot make quite such an extensive showing in flour manufacture, but when it comes to beer, leather and iron, we can give "The Twin" odds.

The electric-sugar-refining process has proved a gigantic fraud and something like a million of American and English dollars have gone to enrich the shrewd fraud-workers. another expensive lesson to persons who put their money into processes so secret that the inventors do not dare to patent them. Will the Keeley motor also prove to be a fraud on gullible investors?

A St. Louis dispatch says;

"The Western Millers' Association's report which is now in print, makes wheat on hand, 1,900,000 bushels more than last year, and 180,000 barrels more flour. The acreage of Missouri is 100, condition 100; Illinois, acreage 98, condition, 101; Kansas, acreage 144, condition, 100. The other four states were and more specific dispatch reports that the above statement of stocks of wheat and flour is from 154 mills.

THE Holiday number of The Northwestern Miller came duly to hand and we believe the most sanguine expectations bred by the representations of the publishers are more than realized. It is better in many respects than any previous Holiday editions. Both mill furnishers, millers and brokers are well represented in its columns. It should be seen to be appreciated. The price is fifty cents per copy. It can be obtained by addressing the publishers at Minneapolis, Minn.

THE Supreme Court of the United wire cloths, with suitable blanks for George Hammand & Co., appeal from millers.

the circuit court of the United States from the district of Massachusetts. The supreme court through Justice Blatchford holds that the lifetime of an American patent first taken out in a foreign country does not expire until the extreme limit of time for which an extension of patent may be secured in the foreign country.

THE February installment of the Lincoln History in The Century Magazine, contains chapters of peculiar interest, describing (1) the events leading up to the final removal of General McClellan, (2) the financial measures undertaken by Mr. Chase and advocated by Mr. Lincoln for carrying on the war, (3) the relations between President Lincoln and Secretaries Seward and simultaneous resignation of the two Secretaries, and the manner in which Mr. Lincoln averted a political catastrophe.

IF you are about to build write to the United States Miller for a copy of "Brean's House Plans," and enclose fifty cents in stamps. It will help you!

THE publisher of The Milling Sphere writes us that his publication has twice been burned out recently, but that his journal will be out shortly in good

WE will send the UNITED STATES MILLER and American Miller to any address in the United States or Canada for one year for \$1.50, or both papers and "50 novel" premiums for \$1.75.

THE Popular Science Quarterly has an able article on "Trusts" by Prof. Theo. W. Dwight, warden of Columbia Colof our legislatures, whether national or well worth the careful study of legislators who are intent upon securing popularity with the public by making a legcannot be prevented or regulated by legislative enactments it is the business of the legislator to find it out before butting his head against an unpassable legal barrier.

In summing up the business disasters in the United States in 1888 Bradstreet's says:

The total number of failures in the United States for the calendar year 1888 is 10,587, against 9,740 in 1887, an increase of 9.7 per cent., but there is nual number of failures. year of financial panic at New York, the total number of failures was 11,620. The decrease in the total in 1885 was 41 per cent., in 1886 it was 4.9 per cent., and in 1887 it was 7.8 per cent. From 1884 to 1887 the decrease was 1,376 failures, or 11.8 per cent. Hence the increase of 847 failures in the calendar just ended can convey no special significance, the aggregate amounting to about the same total as was recorded in 1886, at which time the total was 10,568, or 19 less than the year just ended.

Mich., was killed in a railroad accident Jan. 20, 1889. The name of Cochrane is familiar to millers generally and especially to members of the

he, in a measure dropped out of sight and there was not much heard of him in the trade papers until the announcement briefly made about a year ago that he was about to introduce a new milling system. With this object in view a company was organized and sa very extensive plant at Escanaba, Mich., was about completed. Gov. McDonald also a stockholder in the Cochrane Company was also killed. The accident was sudden and awful in its results.

THE thirteenth annual statement of the Miller's National Insurance Company, Chicago, Ill., was issued Jan. 1. It shows a net cash surplus of \$241.255. 52; deposit notes subject to assessment \$1.123.377.; amount at risk \$8.497.933; Chase, including the incident of the total losses paid during year 1888, \$111. 836.49; total losses since organization paid

In his report Sec'y W. L. Barnum

The total assessments levied for losses and expenses during the past year amount in all to ten per cent of the Deposit Notes, or one-half the Board Rates, equal to an annual cash dividend of fifty per cent in any other company. The interest received from our Permanent Fund, and the profit made on short grain insurance and on cash policies, has enabled us to do this.

The only loss claim is one which we be-lieve we are justified in resisting. While the management of this Company would not take advantage of any mere technicality to avoid the payment of any just claims, they consider it their duty to protect the policyholders against against assessments for those which are illegal and unjust, as well as those which are absolutely fraudulent.

From some observations in the editorial columns of The Milling World, an outsider might think that the banquet at the Plankinton House given by Milwaukeeans in honor of the millers attending the December meeting here, was a sort of "high-toned drunk." It is needless to say that the editor of the lege Law School in which he gives a above-named journal was not present decided opinion against the competence or he certainly would not have made any unpleasant reflections in his paper. state, to prohibit trusts. The article is The banquet was as decorous as any ever given anywhere, and it was a matter of remark that so little wine was drank. We are sorry that the Buffalo islative crusade against trusts. If trusts editor was not present on that occasion, and still more so that he should have been so falsely informed of the facts in the case. Milwaukee is noted for its hospitality, but does not deem it necessary to show it by providing an unseemly flow of liquid refreshments on such an occasion. The editorial insinuations of the Milling World are certainly insulting to not only the givers of the banquet, but to those who partook thereof.

> THE figures given by The Northwestern Miller Holiday number showing that there are less than 600 flour mills In 1884 the 200 bbls. per day or over will set many minds to thinking. We have given that subject a good deal of study and do not hesitate to say that the number as given by The Northwestern Miller is approximately correct. We think however that the list could be cut down to about 500 (if all the facts were positively known) and be nearer the proper mark still.

It has been customary for editors of milling papers to write flippantly on the subject of organizations having any WM. F. COCHBANE of Escanaba, positive influence. As a contemporary puts it, in an article before us, "A hundred millers cannot control 20,000 millers." Is it true?

Was it not nearer the truth when a pamphlet, containing price lists of the the important patent case of the Bate pended over \$90,000 in defending his convention: "Gentlemen-If 100 of After his defeat in that suit large winter wheat millers will com-

bine for the purpose of regulating production they can dictate the price of wheat and flour to the world in nine years out of ten."

The export trade looks almost entirely to the big mills for its supply and foreign buyers, notwithstanding all arguments to the contrary, will look to the United States to supply its shortages for many years to come. Any success that the big millers may secure by combinations or mutual understandings will also be of benefit to the owners of good small mills. It also must not be forgotten that there is a great number of old style mills that have long been idle and in the future will serve only as monaments of the good they have done in times past.

NEWS ITEMS OF ALL SORTS.

THE REIST MILLING Co., Hamburg, N.Y., has made an assignment.

BURNED, Jan. 15, C. Mykolasnek's flour mill at Colby, Wis. Loss about \$5,000; partially insured.

AT Fergus, Ont., Jan. 18, James Wilson's oat-meal mill was burned. Loss \$15,000; insurance light.

AT St. Thomas, Ont., Jan. 18, May Bro.s' flouring mill was burned. Loss \$12,000; insurance \$6,700.

Ar Shippenburg, Pa., Jan. 4, an incendiary fire destoyed the flour mill of Geo. H. Dykeman. Loss \$15,000. THE Minn. & North elevator at Kent, Minn.

was destroyed by fire Jan. 16, with 20,000 bushels of wheat. Loss \$33,000. THE new flouring mill of Johnson & Gale,

at La Valle, Wis., was destroyed by fire, Jan. 4. The loss was \$15,000; insurance \$10,000.

NEAR Picton, Ont., Dec. 20, Hallowell's mills were burned. Loss \$5,000; no insurance. There were 1,500 bushels of grain, belonging to farmers in the mills.

AT Wells, N.Y., Nov. 23, Andrew Deming's steam mill was totally destroyed by fire. The mill had not been running lately, and the fire is believed to be of incendiary origin. Loss

ARTICLES of incorporation were filed at Madison, Wis., Jan. 21, by the Oseola Mills Company, T. C. Ladd, G. B. Hillskotter and H. B. Dike. They will do a general milling business with a capital of \$50,000.

B. J. PANTA writes us from Wedron, Ill., as follows: "I remodeled my mill last fall to a full roller process, Barnard & Leas' system, 24 barrels capacity, water power. It is a custom mill; am running day and night and cannot keep up with orders. I shall have to enlarge next year. I am my own miller.

THE D. Keefer Milling Company of Covington, Ky., assigned January 7, to B. F Graziana; the assets are supposed to be \$75,000 to \$100,000, while the liabilities are estimated at \$100,000 to \$150,000. The death of Keefer, president of the company, Jan. 4, and

the filing of this suit by the First National Bank for \$63,000 caused the assignment.

AT Fayette, Mo., Jan. 10, the Fayette City Mill, owned by J. H. Armstrong & Son, was burned at 8 p. m. The building was a four-story frame and was valued at 15,000, and was insured in the Millers' National Mutual for \$6,000, and the contents for \$1,000 in the same company. Five hundred sacks of flour and 2,000 bushels of wheat burned in the building

NEAR Madison, Dak., Jan. 10, the Madison flour mill and Creamery were burned. Loss \$30,000; no insurance. The mill was located a mile from the city, and before the engine could get there the fire was beyond control There was but little stock on hand, most of their flour being in their warehouse. The safe and books were saved; everything else is a total loss.

THE water was turned into the the canal Jan. 1, and once more Augusta's (Georgia mills are ready to run. The banks of the canal were washed away in September last by he freshet, and the work of repairing them as just been completed. Eleven cotton mills, eside a number of other industries, have een shut down, throwing out of employment over five thousand employes.

THE J. B. Alfree Co., of Indianapolis, Ind., have received orders for complete short-system corn-meal outfits, including their Keystone four-high corn-meal, as follows: James A. Clark & Co., Cumberland, Maryland; Darnell & Dawson, Kokomo, Ind.; Thomas Heaton, Adams, Ind.; Lavelle Lacy & Billhemer, Washington, Ind.; J. L. Green & Co., Vincennes, Ind.; Wilder Moore & Co., Union City, Tenn.; W. L. Jennings, Oakford, Ind.

CHARLES W. Seefield, dealer in grain at St. Charles, Minn., has failed, and his property has been attached by G. W. Vandusen & Co. for \$7,000. He operated nineteen elevators and warehouses on the Winona & St. Peter and Dakota Central Railways, and also flour mills at Arlington, Dak., and at St. Charles, Minn. His liabilities are said to be over \$100,000, chiefly due in Chicago and St. Louis. Latest telegrams indicate that he is in Winnipeg, Man., where he will stay until the excitement blows over a little.

THE great paper-making firm of the Kimberly & Clark Company, Appleton, Wis., has contracted with the Stilwell & Bierce Manufacturing Company of Dayton, O., for twentyone water-wheels of an aggregate horse-pow er of 2,400, for the mammoth ground-wood and sulphate making establishment which they will erect next season at," The Cedars," three miles below Appleton. The plans of the institution are not yet thoroughly perfected. The mill will be one of the largest and most perfect in its character in the country and will cost complete about half a million dollars. The sulphate fiber will be produced by the process of the National Sulphate Boiler and Fiber Company. The institution will have an output of twenty-four tons of ground wood and twenty tons of sulphite per day.

THE representative of an English syndicate visited this country several years ago to investigate the American system of grain elevators. The object of the syndicate was to erect a number of elevators in the Argentine Republic, South America. Before concluding his visit he entered into a contract with Mr. J. A. McLennan of Chicago and Duluth, for the construction of two great elevators, of 1,000,000 bushels capacity each, at Buenos Ayres. Mr. McLennan went to work and in two months from the time he first met the representative of the syndicate he had loaded six ocean ships at Baltimore with the material for the houses, all built to pattern and ready to be put up with the greatest dispatch on reaching the port of destination. A large crew of men had been engaged at Locust Point near Baltimore, in framing the timbers which were loaded on vessels as soon as made ready and sent off to South America, with the crew of men to put them together and put in the machinery when there. Recently Mr. McLennan received a telegram from the syndicate to go ahead and get out material for a third elevator of the same capacity and work on that is now going on. It will be shipped south in a few weeks.

MILWAUKEE ITEMS.

A VEIN of natural gas has been discovered fourteen miles south of Milwaukee.

THE Bernhard Stern Milling Company, of Milwaukee, have filed articles of incorporation with a capital of \$100,000. The incorporators are B. Stern, C. F. Kuehne and

A. A. L. SMITH, Edward P. Vilas and James H. Barry Jan'y 6, incorporated the permission. Western Portland Cement Company of Mil. waukee with a capital stock of \$100,000, divided into 1,000 shares.

A CHAIN slipped from one of the cranes in the Reliance Works (E. P. Allis & Co.) Jan. 21, allowing a heavy piece of iron to fall on Lawrence Warzinski, a laborer. He was seriously and perhaps fatally wounded.

VARIOUS committees are meeting daily making preparations for the National Encampment to be held next summer. Milwaukee, is expected to out do all previous efforts at great entertainments on that occasion,

On Saturday, Jan. 16, as Bernard Stern, president of the Jupiter Milling Co. was coming out of the Merchant's Exchange Bank, pickpockets robbed him of \$265, which he had just checked out. Fortunately detectives were successful in arresting two of the theives on an outgoing train, and nearly all the money was recovered.

ROBERT GUY CLARKSON died auddenly at his residence, Jan. 6 1889. The deceased was a well-known flour and grain broker on Change where he was very much liked as he was of a cheerful nature and was thoroughly well informed on all matters of general interest. He was born in Toronto, Canada, Oct. 8, 1841. He was the son of Hon. Thomas Clarkson the well-known English philanthropist, who with Wilberforce, brought about the supppression of the slave trade.

A MILWAUKEE Board of Trade man recently expressed his views of "kickers" and 'croakers" as follows: The kicker is a developer; the croaker is an incubus. kicker incites to improvement; the croaker to indignation and resentment. The kicker only is heard when he is given \$1 accommodations at \$8 rates; the croaker would be just as noisy if he was getting \$3 accommodations and paying nothing. The kicker is a lively, jovial, progressive fellow; the croacker is a dismal nuisance, who lags superfluous on the

lers' Mutual Insurance Company was held at the office of the secretary, S. H. Seamans, in the New Insurance Building, January sixteenth. The reports presented showed the organization to be in a prosperous condition, over \$1,000,000 more business having been done in 1888 than in 1887. Among the directors who were present were the following: John Schuette, of Manitowoc; E. W. Arndt, of Depere; S. H. Seamans, of Milwaukee; J. Howitt, of Waukesha, and S. Willy, Appleton.

L. J. PETIT and Ward Clement, who recently purchased the McGeoch packing house, will convert the plant into a mammoth storage establishment, to be known as the Milwaukee Storage and Forwarding Company, Railroad Warehouse and Steamer Docks. The property is well adapted to this purpose, with side tracks extending into the buildings, and ample dock frontage accessible by the largest vessels on the lakes. The equipment will include one of the largest and est cold storage departments in the country. The company will issue regular warehouse receipts and advance money on merchandise in store when desired, which is a new enterprise for Milwaukee and calculated to interest millers, merchants and manufacturers generally.

A MILWAUKEEAN, Who resides way up on the West Side, must be credited with sharp financeering on a small scale. He generally earns his fare in the horse-cars by taking a seat next to the fare-box, and as people come in he politely takes their nickels and puts them in his pocket, and drops car tickets in the box. As tickets when purchased by the dollar's worth cost but 4 cents a piece, he is a cent ahead every time, and he says its a poor morning indeed when he dont make his fare anyhow.

FOREIGN NOTES.

LUBRICATING VIRTUES OF VARIOUS OILS. The Italian Admiralty have recently caused to be carried out a number of experiments with a view to testing the comparative merits of castor oil and of olive oil for lubricating purposes on board ship. From the results thus obtained they have given orders that henceforth all exposed; parts of machinery are to be lubricated exclusively with castor oil, while the mineral oils are to be used for cylinder and similar lubrication.

A REPORT from St. Petersburg says that the Russian Government will admit foreign sacks into Russia without the payment of duty, in order to facilitate the export of grain and flour from the Baltic, Black Sea and Sea of Azof ports. Foreign joint stock companies will be allowed to operate in the country without the imperial permission on condition that they sell only articles of foreign manufacture. Companies running steamers to Russian ports will also be allowed to operate without obtaining the imperial

ELECTRIC POWER TRANSMISSION IN AUS-TRIA.-The Oerlikon works propose, at Steyrermuhl, to transmit by dynamos 400 h. p. over a distance of 650 yards. A 100 h. p. plant is already at work in this locality. Innsbruck, there is now at work an Oerlikon a plant transmiting 50 h.p. over a distance of 500 yards; and other projects are in preparation. Messrs. Ganz & Co., of Buda-Pesth, are now bringing out an alternate current motor, which has the great advantage over the Tesla motor of requiring only one circuit. This motor can, therefore, be worked on any existing alternate current electric light circuit, and from experiments made with a i h. p. and a 2 h. p. motor, it appears that an efficiency of 60 per cent. is attain-

THE question of the flour syndicate continues to be much discussed, says the Newcastle Daily Chronicle (England), and it is now known that some millers who are important contributors to the flour production of the district have not yet joined the trust, whilst others are also outside. There is still some time before the syndicate would commence its operations, and it is possible that in that time the position may be changed. But it is worth notice that there is a larger quantity of foreign flour brought into this district than has been hitherto considered; and it is possible that the Railway Rates Bill may have some effect in minimizing the distance that flour is carried inland. The question of the desirability of the syndicate is a very interesting one, and it is possible that the projection of it may be the means of attracting the attention of millers outside this district to this part as a field for disposing of more of their produce, seeing that there are such good facilities for reaching the counties of Northumberland and Durham by sea-which means cheaply reaching them.

THE stockholders of the Milwaukee Exposition Company met on the evening of Jan. 11, and by an amusing circumstance Mr. Wm.

THE annual meeting of the Wisconsin Mil- Plankinton, the principal stockholder, ceased to be a director. Mr. Plankinton came to the meeting with 1,000 shares in his pocket, and as the voting was by share, he was quite a power when the balloting was going on, the other members present representing collectively but 754 shares. He voted in succession for the re-election of E. P. Matthews, T. L. Kelly, C. M. Cottrill and G. E. Hansen, who were elected unanimously. When his reelection was proposed Mr. Plankinton realized the delicacy of voting for himself, and so thoughtless of the result he was bringing about, recorded his vote for W. Meller. He was not a little surprised when he found that Mr. Meller was elected by a vote of 1,000 to 754, and that he had unwittingly voted him-self out of office. It is surmised, however, that it was not altogether a mistake, as it is believed that Mr. Plankinton did not desire to be burdened with the office, and was perfectly content to leave the administration of affairs by the Board as elected.

FROM a communication received from Harris Brothers &Co., 6 Crosby Square, London, E. C., under date of Jan. 13, we quote as follows: "The weather is colder and more seasonable; home-grown grain, especially barley, has been in good supply, and foreign has come in freely to United Kingdom porte; some South Russian seaports and Danube still ship freely of everything, but the Azoff season is now over till spring. Wheat, since our last, has varied but little in price, though demand has been good for best reds, Californians and Australians, many millers and dealers liking to keep up stocks of such in the face or winter; and as to white wheats especially, it is argued that for 1889 Australia will do next to nothing in way of export, and that therefore United Kingdom and Continent, later on, may easily absorb all the Californians, Oregons, Wallas, and Chilians that may arrive. New crop River Plate and Last Indian wheats will not arrive here in any quantity till May or June, and the United States do not appear inclined to export at present, probably preferring to wait and see how spring sowings progress with them, and how the winter wheats on the ground then look; at present our millers are using Russian and English wheats very freely, and the roller system does not call for so much white wheat admixture as the stones used to do, a point that keeps sorts, in proportion to red, at a lower price than used to be the case. Foreign flour stocks decrease in the U. K., imports being more moderate, nor does America show signs of supplying us at all freely at the moment. Maize keeps quiet, but present colder weather ought to improve demand everywhere, at same time the United States offer "forward" pretty low, say for January, new crop, at 21s., and for April-May at 20s. 6d. to 20s. 9d. C. F. & I., A. Terms. Feeding Barley, and secondary malting sorts, have ruled steady all the week at the recent decline, demand being wonderfully good everywhere. Oats have been pretty easily sold all the week at full prices, especially for commonest kinds.

Under the heading of "The Flour Ring" the British Baker and Confe don, E. C., under date of Jan. 13, we quote as follows: "The weather is colder and more

UNDER the heading of "The Flour Ring" the British Baker and Confectioner in its January number, goes for the English millers who have entered into a combination which they trust will be of benefit to their business individually and collectively.

In another column bakers will see that between the Tweed and Humber some twenty millers have resolved to unite in a course of action that will in future prevent them cutting each other down. Every miller is to sell his flour in his own district. Whether they his flour in his own district. Whether they have consulted the bakers on this point does not appear. It would look very much as if they were counting their chickens before they are hatched. It is true in the districts mentioned the people principally bake their own bread in their kitchen side ovens. However, the baker need not be afraid. If he does not like his local miller's flour, a very common thing, there will be plenty of millers outside the district who will sell him as much flour as he likes, and as cheap as his local miller, too. It is a pretty irony on their own ability that these English millers confess to. This flour ring means that an American miller is able to send his flour all the way from Minneapolis or St. Louis, and deliver it in Yorkshire, Durham, and Northumberland cheaper than his English competitor. If these twenty millers had resolved to unite their twenty capitals in one central mill to serve this dismillers had resolved to unite their twenty capitals in one central mill to serve this district we should have more faith in their success. It is not carriage that kills them; that is proved by the Americans. It is want of skill, business ability, and enterprise. It is a popular notion that the foreign flour is the competitor which ruins English millers. Why, we know what we are saying, and we are within the truth when we assert that more than 90 per cent. of the foreign flour imported is bought by English millers. How much of this is sold by them again as foreign flour it is difficult to say; but we should not think 20 per cent. over the mark. We know millers who make about two thousand sacks a week and sell over five thousand. Every baker who make about two thousand sacks a week and sell over five thousand. Every baker must know this. If the English miller is going to protect himself by any ring, we promise him a warm time of it. We shall have something to say next month on the Merchandise Marks Act and English millers, that may not be pleasant reading for them. In the mean time, if bakers object to getting flour from the local millers, our advice is, go to the fountain head, buy direct of the foreign miller, who will be only too glad to supply you, and that with a flour not mixed and blended till it is neither fish, flesh, nor fowl.

THE C. I., St. L. & C. Ry. (Kankakee line) is the best route to Florida. Close connec ions in Central Union Depot, Cincinnati with through express trains of C. N. O. & T. P. By. Queen & Crescent Boute.

El A

SECTION OF CONVEYOR.

Elevators,

RELS, ETC.

Also manufacturers of the Gregory Grain, Seed and Fruit Dryer; Meal and Flour Purifier.

Before Placing Orders

Send for Illustrated Catalogue and

Prices.

THE JEFFREY MFG. CO.,

169 E. 1st Ave., COLUMBUS, O.

1889 New Business 1889

FOR DOMESTIC and FOREIGN TRADE

Our National Staples and Specialties

Showing where ANY ARTICLE OF AMERICAN MANUFACTURE can be purchased DIRECT.

A COMPLETE REFERENCE BOOK

-PRICE, \$5.00-

A Complete Cyclopædia FOR BUYERS AND SEL-LERS in all Trades. Bound in Cloth.

In Leather, \$7.00.

PUBLISHED BY

THE SEEGER & GUERNSEY CO.

7 Bowling Green, New York, U. S. A.

TRADE LISTS FURNISHED

CORRESPONDENCE SOLICITED.

AGENTS WANTED EVERYWHERE.

Manufacturers will please forward to us two sepies of their latest catalogue.

for Manufacturers, Wholesalers, Jobbers, Retailers, Com-sion, Export and Import Merchants, etc.

Cyclopædia

[Jan.89.]

Drive Belts.

ROLLER and DETACHABLE

CHAIN

BELTING

DETACHABLE in every Link.

Especially Designed for

For Handling

GRAIN, SEEDS, EAR CORN

MALT, COTTON SEED, COAL,

STONE, CLAY, PAPER-PULP,

TAN - BARK, BOXES, BAR-

Conveyors,

Etc., Etc.

AN AUTHENTIG BUYER'S GUIDE.

MILL AND ELEVATOR BUILDERS, MILL FURNISHERS, MANUFAC-QURERS OF AND DEALERS IN MILL AND ELEVATOR MA-CHINERY AND SUPPLIES.

Cards will be inserted under this heading in the "U.S. Miller," not exceeding three lines, copy of paper included, for FIVE DOLLARS per year, cash with order. Additional lines, \$1.00 cach, per year.

Edw. P. Alia & Co., Milwaukee, Wis., builders of com-plete Flour Mills, manufacturers of Flour Mill Machinery, and dealers in Supplies of every description. [Mr.39.]

Carden City Mili Furnishing Co., Chicago, Ills., Mill Builders, manufacturers full line of Flour Mill Machinery, dealers in Mill Supplies, Bolting Cloth etc., etc. [Mr.80.]

Sorden, Selicck & Co., 48 & 50 Lake at., Chicago, Illa, manufacturers of "HARRISON CONVEYOR" for Grain, Mait, etc., etc.

John C, Higgins & Sen, 165 West Kinsie Street, Chicago. Ills., mfrs. of and dressers of Mill Picks. (Mr.89.)

P. Yale & Co., Miwaukee, Wis., Manufacturers' Agents of Engines and Boilers, New York Leather Belting Co.'s Leather Belting, Dodge Wood Pulley.

Poole & Nunt, Baltimore, Md., manufacturers of Steam Engines, Water Wheels, Flour, Corn, Paper, Saw and Cotton Mill Machinery.

W. J. Clark & Co., Salem, O., manufacturers of "SALEM" Blevator Buckets, etc.

Theraburgh & Giessner. 18—23 N. Clinton St., Chicago, Ills., manufacturers of Mill and Elevator Supplies.

C. McCulley, (P. O. Box 214) Lancaster, Pa., manufactures Cob Crushers, Cooper's Stoves, Castings, Patterns, etc. [Mr.59.]

H. & J. Sanford, Phoenix Iron Works, Sheboygan, Falls, Wis., manufacturers of the "IMPROVED WALSH DOUBLE TURBINE WATER WHEEL." [Mr.SO.]

John C. Kliner, York Foundry and Engine Works, York, Neb. Hill and Elevator machinery of all kinds, Engines, Hollers, Pulleys, Shafting, etc. [Mr.39.]

The Gutta Percha and Rubber Mfg. Co., 159-161 Lake st., Chicago, Iil., Belting and Rubber Goods. [Mr.89.]

The Avery Elevator Bucket Co., sole owners and manufacturers of Seamless Steel Elevator Buckets, Wason, Lake and Dart sts., Cleveland, O. (Mr. 89.)

Richmond Mig. Co., Lockport, N. Y., manufacturers of Grain Cleaning Machinery, Bran Dusters etc. [89.Mr.]

N. Y. Beiting and Packing Co., N. Y. Leather Beiting Co., Goulds & Austin, Agents, 167 and 169 Lake Street, Chicago. [Apr. 89.]

Weiter Bros., 94 Wendell st.: Chicago. M'f'rs Mill and Elevator specialities, Cups, Boots, Spouts, Steel Conveyors, Power Grain Shovels; dealers in Cot-ton and Rubber Belting, etc. [Apr.89.1

The Nordyke & Marmon Ce., Indianapolis, Ind., Flour Mill and Mill Machinery builders, and dealers in Mill Supplies of all kinds. [May90.]

The Shields & Brown Co., 240 and 243 Randolph st., Chicago, and 143 Worth st., New York. Mfrs. of Sectional Insolated Air Coverings for steam, gas, and water pipe, etc. [May 89.]

W. C. Avery MTg Op., 10 Vincent st., Cleveland, O., Specialties: Avery Lever Belt Punches, Avery Seamless Elevator Buckets, Belting, Elevator Bolts, &c. [May'89.]

The H. J. Deal Specialty Co., Buovrus, Ohio. Head-quarters for Flour and Grain Testing Appliances, and Specialties for the Milling, Flour and Grain trades.

EXPORT AND MERCHANT MILLERS AND MANUFACTURERS OF WHEAT, BYE AND BUCKWHEAT FLOURS, AND CORN MEAL AND CORN PRODUCTS, (WITH NAMES OF SPECIAL "BRANDS" MADE) DE-SIRING CORRESPONDENCE WITH SOLID HOUSES WITH A VIEW TO TRADE.

Cards will be inserted under this head in the UNITED STATES MILLER, not exceeding three lines, paper included, for FIVE DOLLARS per year. Additional lines, \$1.00 each per year.

A. Kern & Son, "Bagie Mills," Milwaukee, Wis. WHEAT FLOUR BRANDS—Patents: "Success," "Kern's." Bakere: "Triumph," "High Ground," "Hagie," "Bys FLOUR BRANDS—"A Rye," "18,9e," [Apr. '89.]

E. Sanderson & Co., "Phoenix Mills, Milwaukee, Wis., U.S A. Manufacturers and Exporters of choice spring wheat flours. Daily capacity 1560 barrels. [Apr. '89.]

Semhard Stem, "Jupiter Mills," Milwaukee, Wis. Roller Mill. Hard wheat Patente. Principal brand, "Jupiter." [Apr. '80.]

Faist, Kraus & Co., "Duluth Roller Mill," Milwaukee, Wis., Manufacturers and Exporters of choice spring wheat flours. Daily capacity 1500 barrels. [May'80.]

Russell, Andrews & Birkett. Penn Yan, N. Y. Manufacturers of roller process Ryc and Buckwhes flour. Absolute purity guaranteed. Writes for [Apr. '80.]

Prominent Flour, Grain and Provision Brokers, desiring gorrespondence with Millers of Wheat, Rye and Buckwheat Flours, and Cornmeal and Corn Products, with a view to Trade.

Cards will be inserted under this heading in the "U.S. Miller," not exceeding three lines, copy of paper included, for FIVE DOLLARS per year. Additional lines, \$1.00 each per year.

W. K. Sherweed, Flour and Grain Commission, 18 South Commercial Street, St. Louis, Mo. [Ap.89.]

j. 8. Ward, Shippers of Minnesota and Dakota Spring Wheats, Minneapolis, Minn., Possessing a thorough and practical knowledge of the Economical and Flour Producing Qualities of all wheats grown in the northwest, I am enabled to make purchases with special reference to these qualities.

THE publisher of the UNITED STATES MILLER is desirous of having the names and addresses of Head Millers, Millwrights and Head Engineers in all mills having a capacity of 180 bbls. per day or more.

GANZ & GO.Budapost, Austria-Hungary.

We are the first introducers of the Chilled Iron Rollers for milling purposes, and hold Letters Patent for the United States of America. For full particulars address as above.

[Mention this paper when you write to us.]



Do you wish to pur-chase the Best FRENCH BURR Vertical or Regisental Feed Mills

Cob Crushers.

C. C. PHILLIPS, South Broad Street Philadelphia, Pa.

Improved÷Walsh÷Double÷Turbine



This wheel has a perfect fitting cylinder gate and draft tube combined, and allows no water to escape when closed.

POWER GUARANTEED

equal to any wheel on the market using equal amount of water. Address for par-ticulars,

B. H. & J. SAMPORD,

Phoniz Iren Works. Sheboygan Falls, Wis.

ENLARGED.

Rand, McRally & Co.'s

NOW IN PROSS.

NEW SIZE OF PAGE, 15 = 21 INCHES.

It will contain new large scale double page maps of all important states (no cut-up maps. The entire arrangement will be new embodying the most improved methods of indexing and reference, clearly showing the location, population and commercial advantages of over 200,000 towns in the United States, Canada and Mexico.

Descriptive circular, printed on one of the maps, worth 35 cents, sent free on application.

maps, worth 85 cents, sent free on application.

RAND, MCNALLY & CO..

148 Monroe Street, Chigcao.

York Sto 323 Broadway.

Situation Wanted.

A practical Stone Miller of thirty years experience, with good business qualifications and industrious habits, wants charge of a good Stone Mill by the month, or will run a mill on shares. Address, H. R. GARLICK, Menomonie, Wis.

Machinery For Sale

ONE PAIR 4-FT. MILLSTONES; new. SEVEN PAIR 4-FT. MILLSTONES; used about three months.

ONE PAIR 9x 18 CHILLED ROLLS; smooth.

ONE No. 1 THROOP SHUTTER AND SCOURER.

ONE 24-INCH MIDDLINGS MILL. ONE 1000-LB, PALMER POWER SPRING HAMMER.

Filer-Stowell

CREAM CITY IRON WORKS.

Milwaukee.

"TRIUMPH" CORN SHELLER

CAPACITY 2000 BUSHELS PER DAY,

Shells wet or dry corn. Cheapest and Best Sheller.

PAIGE MANUF'S CO.,

No. 13 Fourth St., Painesville, O. [Please mention this paper when you write to us.]



18 Charles Mayer's Commercial College,

Grand Avenue (Public Library Building). Milwaukee. Established 1876. 1876, 27 pupils; 1887, 328 pupils. Telephone 1575, ay and Evening Sessions.

Students of either sex received at any time for full course or any special branch of study.

full course or any special branch of study.

DEPARTMENTS: Commercial, Preparatory,
Shorthand (Graham's analytical system) and Typewriting (all styles of machines), Languages, Plain,
Ornamental and Bound Writing.

Best, Largest, Most Beautifully Equipped
School of its Eind. Eight teachers. Perfect
Order, Liberal Terms.

Address, or call, College.

Oscholars from the country 20 Per Cent. Discount allowed. Board procured. Further information, address College. [Oct 5m.]

IMPROVED CORN SHELLER.



IT IS THE BEST CORN SHELLER MADE FOR MILL USE.

IT IS Simple in Construction Almost Noiseless,

Requires Little Power HUNDREDS ARE IN USE.

For descriptive circu-lar, price list, etc., Ad-dress JACOB VALENTINE.

The True Short System of Milling.

Gorham, Ontario Co., N. Y.

A NEW BOOK JUST ISSUED BY R. JAMES ABERNATHY.

PRICE: \$2.00 PER COPY, POST-PAID.

ONE COPY AND THE U.S. MILLER, \$2.25.

Address, UNITED STATES MILLER,

MILWAUKEE, WIS.

SALEM, OHIO.



Perhaps the highest compliment that could be paid the "SALEM" Bucket, is the fact that, during the past few years, its shape has been so closely imitated by other manufacturers, as to infringe our patented rights; but experience reveals the imperfections of imitations, and, we therefore, take it as a further compliment to the "SALEM" Bucket, that some of its old patrons who were induced to try the imitations, have now returned to the Salem Bucket, thereby acknowledging it to be the most satisfactory. Don't be deceived by other makes of Buckets that are claimed to be "just as good." Insist upon having the ORIGINAL AND RELIABLE

"SALEM" BUCKET.

All logitimate "Salem" Buckets are plainly marked with the word "SALEM."

W. J. CLARK & CO., Sole Manufacturers,

THORNBURGH & GLESSNER, Gen'l Agents, CHICAGO.

BPECIAL STAMPERS OF SHEET METALS.

We de Stamping and Pressing of Sheet Metals for All Classes of Work.
——ALSO SOLE MANUFACTURERS OF——

SEAMLESS STEEL BUCKETS

INSIST on having this Bucket furnished when ordering.

your dealer for the Avery Pat. Seamless Steel Elev



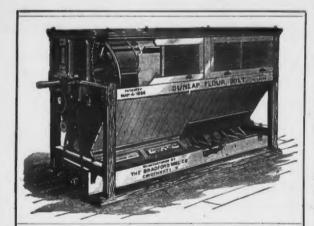
We do not advertise Seamless Elevator Buckets and fill orders with "Pieced Ones"

We will make Special Prices rather than mere stock to our new factory. Send for discounts.

THE AVERY STAMPING CO.,

AVERY ELEVATOR BUCKET CO., CLEVELAND, OHIO, U. S. A.

A Great Acquisition to Milling."



The New 1500-Barrel Mill on Staten Island, N. Y., will have 52 of these Reels to do all its Bolting.

HUNGARIAN ROLLER MILL CO.,

BLOOMINGTON, ILLS., September 14th, 1888.

THE BRADFORD MILL CO., Cincinnati, Ohio.

GENTLEMEN: I have had your DUNLAP REEL in operation about 15 days and nights, and on new wheat which was very soft, and it has accomplished its work admirably; greatly exceeded my expectations. I have operated quite a variety of Reels, but have to say the DUNLAP surpasses any I have ever seen or used.

It gives me pleasure to state that its work has given entire satisfaction, and moreover, am surprised at its close separation, capacity and light running. The Dunlap Reel can certainly be considered a great acquisition to milling.

I to-day forward you, per mail, samples of material upon which your Reel is working. Yours truly,

A. G. BEOBOLD, Head Miller Hungarian Roller Mill Co.

PRIVATE - TELEGRAPHIC - GIPHER

Compiled Expressly for the use of

Millers, Flour @ Grain Brokers

For Private Telegraphic Correspon 'ence either for Land or Cable Lines.

E. HARRISON CAWKER, Milwaukee, Wis.

THE BRADFORD MILL CO.

CINCINNATI, OHIO.

The Gardner Flour Feeder Mixer.



THE ECONOMIST AND MILLER'S FRIEND.

THOUSANDS NOW IN USE.

Saves the Labor of one man. Can be quickly adjusted to feed from ten pounds to five barrels per hour. Requires no attention, and will feed any amount at which it is set, with the regularity of clock-work. It is easily set up, and requires speed of only 20 to 30 revolutions.

The Cheapest and Most Perfect Machine ever offered to the Milling Public.

Write for Circulars to

The STEPHEN HUGHES MFG. CO., Hamilton, O.



Opposite the Plankinton House,

A VERY LARGE STOCK OF

Diamonds, Fine Watches, Jewelry, Silverware,

Opera Glasses, Gold Spectacles, Canes, Umbrelles, etc.

Goods warranted as represented. Prices reasonable

DEOPOSALS FOR FLOUR MILL MACHINERY.

U. S. Indian Service. Green Bay Agency, Wisconsin, Dec. 27, 1889.

"selied proposals, indorsed "Proposals for Flour Mill Machinery" and addressed to the undersigned at Keshens, Wisconsin, will be received at this office until 1 o'clock, of Friday. Feb. 15, 1889, for furnishing and delivering at Shawano, Wisconsiery for a flour mill of a capacity of 25 to 40 barrels per day; also one 56 inch turbine water wheel. The mill is to be run by water power, and the machinery required should consist of the following. Vis. One four break roller mill with elevators and scalpers complete; two double roller mills; four ecalping reels and chests complete; two double roller mills; four ecalping reels and chests complete; two four-frost rolling see een for finishing wheat, together with all necessary pulleys, elevators, belting, shafting, coupling, hangers, gearing and necessary iron work to place the machinery in running order.

Bach bid must be accompanied by a certified check or draft an some U. S. depository for at least 5 per cent. of the amount of the proposal, which check or draft shall be forfeited to the United States, in case any bidder receiving an award shall fail to promptly execute a contract with good and sufficient sureties; otherwise to be returned to the bidder.

The right is reserved to reject any or all bids, or any part of any bid, if reemed for the best interests of the service. Thios. JENNINGS.

U. S. Indian Agent, Keshens, Shawano Co., Wis.

** 1888 Edition, just out, March 1, 1888, revised, amended and added to, to meet all
the requirements suggested by the
members of the Miller's National
Association, who we more copies
of the Code than all others
combined.

Published by the Elverside Frinting Co., Milwaukee, Wis. For terms, etc., address, stating number of Codes probably wanted,

CAWKER'S AMERICAN

GRAIN BLEVATOR

DIRECTORY

Published once in two years.

s nearly 38,000 Addresses, P. O., County State, Capacity, Power, System. etc.; ao lists of Fillwrights. Miscellaneous Fills, Millbullders and Furnishers. Floar and Grain Dealers, For-eign Flour and Grain Im-porters, etc., etc.

1888-9 Edition, Issued March, 1888,

PRICE, \$10 PER COPY, id and registered to any part of the Address,

E. HARRISON CAWKER, Milwaukee, Wis.

B. A. KERN & SON, Merchant Millers,

Capacity 2,000 Barrels Per Day.

MILWAUKEE, WIS.

Manufacturers of Choice Minnesota and Dakota Hard Wheat Flour

FLOUR

By most approved roller process, guaranteed the best and purest rye flour manufactured. WE INVITE CORRESPONDENCE FROM CASH BUYERS.

RAILWAY BUILDING IN 1888.

The Chicago Railway Age of Decem- the winter of 1887-88. ber 28 said: "The railway mileage of ful holiday issue of Wide Awake other year in history with the excepbut two of the forty-seven states and

RECENT PUBLICATIONS.

Company, Boston.

WISCONSIN Farmers' Institutes. -- From W. H. Morrison, superintendent, Madison, Wis.,

a series of eighty-one meetings held during

THE January number is the second beautithe country has increased during the with a charming social novelty for the winter year by 7,120 miles of main track. evenings, a violin recitation entitled "The Cricket Fiddler." The opening story, full of Whilst this is much less than the phenomenal increase in the years 1887, titled "Good Luck." Another Christmas 1886, 1882 and 1881, when the new story, "Such a Little Thing" is by Mrs. L. B. Walford. Mrs. Jessie Benton Fremont, mileage was respectively 13,000, 9,000, has a sketch of early California, called "My 11,560 and 9,796 miles, the record for Grizzly Bear." The serial stories are very the past year exceeds that of every readable: "Five Little Peppers Midway," by Margaret Sidney, while the Trowbridge serial, "The Adventures of David Vane and tion of the year 1871, when 7,379 miles David Crane," swings along in a jolly way. were added. New track was laid in all "The Legend of William Tell" gives some excellent reasons for classing that popular territories, the exceptions being Rhode

Mrs. Sallie Joy White tells in "Fire-Building" how the girls are taught to build a episode of Swiss history among folk-tales. fire in the Boston public schools, which is exactly how a fire should be built in every-Wide Awake is \$2.40 a year. D. Lothrop body's kitchen. Prof. Starr writes in "A Queer Bundle of Sticks" of the evidence that elephants once roamed over America. Mrs. Goddard Orpen relates the romantic inciwe have received Bulletin No. 2, Wisconsin Farmers' Institutes. It contains 346 pages, devoted principally to the proceedings of the closing institute at Madison, March 27-29, 1888. This institute was the "round-up" of

ENGINE FOR SALE.

One 600 Horse Power Corliss Upright Compound Engine

Diameter of high pressure cylinder 28 inches, 38 inch stroke. Diameter of low pressure cylinder 56 inches, 38 inch stroke. Length of crank shaft 11 feet. Diameter of journals, 15 inches. Diameter of fly wheel, 24 feet. Weight of fly wheel, 48,000 pounds. Boiler feed pump. Engine complete, in good working order; can make from 1,000 to 1,200 bbls. of flour in 24 hours; has made a barrel of flour with 20 pounds of coal. For particulars apply to particulars apply to

JOHN B. A. KERN & SON, EAGLE FLOURING MILLS. MILWAUKEE, WIS.

CHOMMAH TYPE-WRITER AND DROP CABINET DESK.



The highest achievement and latest preduction in Writing Machines

MILWAVESS TYPE-WRITER ASSEST.

The volume before us covers a wide fieldfarming, horticulture, ensitage, cattle, horses, dairying, sheep, swine and other mat-

ters relating to progressive agriculture. It is a most valuable work.

The export edition of The Engineering and Mining Journal, New York, issued Jan. 5, is a credit to the publisher, and speaks well also for the enterprise of American manufacturers of mining machinery and supplies who have so liberally contributed to the advertising pages. The number contains fifty-six pages, and is first-class in every respect.

To every Lover of Good Reading:

DEAR FRIEND—Mr. Will C. Turner, the well known Publisher and Managing Editor of CITY AND COUNTRY, that excellent 16 page monthly magazine published at Columbus, Ohio, has recently made an offer in connection with his publication which should ge tainly be accepted by you CITY AND COUNTRY has been regularly published at the rate of \$7 per year, for the past seven years. Mr. Turner is anxious to increase his already large circulation within the next three months to 50,000 regular subscribers more.

seven years. Mr. Turner is anxious to increase his already large circulation within the next three months to 90,000 regular subscribers more.

To accomplish this purpose, believing that every subscriber will, at the expiration of their subscription renew, he has devised the following plan:

Every person desiring to become a subscriber to the City and Country, which, by the way, contains each year four to fee continued stories, thirty to forty tilustrations in each teems and a large amount of thirty sto forty tilustrations in each teems and a large amount of thirty sto forty tilustrations in each teems on the ladies—is requested to carefully and plainly to write out two complete copies of this letter and sign your name at the bottom. These copies must then be mailed by you to two of your friends is some other town or locality who are thereby requested to do just as you have done, wis: Write two copies and send to two of their friends, and so the work will goon and on. After mailing the two copies, the original letter which you copy from, together with a slip of writing paper, cut about the size of a postal card, with your address plainly written on one side and the address of the two to whom you have sent the copies on the other side, and as cents in silver or postage stamps must be enclosed in a letter and mailed to Will C. Turner, Columbus, Ohio. Un the receipt of these you will be placed on the subscription list for one year, the copy for the present month will be promptly smalled, and also, which is the greatest reason why you should accopt this offer, fine corrupted rancels in pamphet form will be sent you by mail, post-paid, which would regularly cost one dollar each if bound in cl. th. Do not the two populars, as Mr. Turner only proposes to let this ofer stand for a short time. True, it requires some time and work to copy all this twice, but you will be most handsomely rewarded for it.

[Signed,]

OUR readers will confer a favor by writing to us giving us any item of news such as new mills, elevators, etc., or improvements in the same, or giving information of a practical nature of general interest to the trade.



Fast Mail Line with Vestibuled Trains between Chicago, Milwaukee, St. Paul and Minneapolis.

Trans-Continental Route between Chicago, Council Bluffs, Omaha and the Pacific Coast.

Great National Route between Chicago. Kansas City and St. Joseph, Mo.

8700 Miles of Road reaching all principal points in Illinois, Wisconsin, Minnesota, Iowa, Missouri and Dakota.

For maps, time tables, rates of passage and freight etc., apply to the nearest station agent of the CHI-CAGO, MILWAUKEE & St. PAUL RAILWAY, or to any Railroad Agent anywhere in the World.

ROSWELL MILLER. A. V. H. CARPENTER, General Manager. Gen'l Pass. and Tkt. Agt.

For information in reference to Lands and Towns owned by the CHICAGO, MILWAUKER & ST. PAUL RAILWAY COMPANY, write to H. G. HAUGEN, Land Commissioner, Milwaukee, Wisconsin

THE CHICAGO AND

OVER 7,000 MILES

Of steel track in Illinois, Iowa, Wisconsin, Michigan, Minnesota, Nebraska, Dakota and Wyoming, penetrates the Agricultural, Mining and Commercial Centres of the

WEST AND NORTHWEST.

The Unrivaled Equipment of the Line embraces Sumptuous Dining Cars, New Wagner and Pullman Sleepers, Superb day Coaches and

FAST VESTIBULED TRAINS

Running direct between Chicago, St. Paul and Minneapolis, Council Bluffs and Omaha, connecting for Portland, Denver, San Francisco and all Pacific Coast Points.

ONLY LINE TO THE BLACK HILLS

For Tickets, Rates, Maps, Time Tables and full information, apply to any Ticket Agent or address the Gen'i Passenger Agent, Chicago, Ill. J. M. WHITMAN, H. C. WICKER, H. P. WILSON, General Manager. Traffic Manager. Gon'l Pass. Agt.

from the diary of tourists' commercial travelers, busi-ness men and others has re-

That the Wisconsin Central has the unqualified endorsement of all:

That the Wisconsiu Central has to-day the most popular line between Chicago and Milwaukee, and vt. Paul Meucapolis and the Northwest;

That the Wisconsin Central is daily adding to its admirers as the recognized Pullman line between Chicago and Milwaukee and Ashiand, Duluth and Lake

That the Wisconsin Central touches the most prominent points in Wisconsin, and that it has more important business centers on its through line than any other railway to and from the Northwest;

That the Wisconsin Central has made an enviable reputation with its peerless Dining Car Service;

That the Wiscousin Central runs fast trains on which all classes of passengers are carried with commodious and distinct accomodation for all:

hat the Wiscosin Central has represen-tatives distributed throughout the country, who will cheerfully give any information that may be desired and that its terminal Agents are specially instructed to look Central has represen-Agents are specially instructed to look after the comfort of passengers who may be routed via its line.

For detailed information, apply to your nearest Ticket Agent; or to representatives of the Wisconsin Central Company.

WM. S. MELLEN, JAMES BARKER, Genl, Passr. &. Tkt. Agt. LOUIS ECKSTEIN.

Asst, Genl. Passr. & Tkt. Agt MILWAUREE, WIS.

ALL persons desiring to reach the entire milling and grain trade of America, by circular or otherwise, should obtain a copy of CAWKER'S AMERICAN FLOUR MILL AND ELEVATOR DIRECTORY FOR 1888.

WE shall be pleased to receive from any of our readers, short, crisp, sensible letters on subjects of interest to the flour and grain trade for publication.

EXPORTING millers should write to the Riverside Printing Co., Milwaukee, Wis., for the best Flour Cable-Code ever published. There are more copies of this Code in use than of ALL other flour codes published. It is simple and accurate.

ASHLAND M.L.S.&W.RY. ROUTE

A ILWAUKEE. LAKE SHORE & WESTERN R'Y

AND MOST POPULAR LINE AND Through Sleeping and Parior Car Route

PROM CHICAGO and MILWAUKEE

SHEBOYGAN, MANITOWOC, APPLETON NEW LONDON AND WAUSAU, TO ALL THE IMPORTANT TOWNS IN THE Gogebic, Penokes and Montreal Iron Ranges, HURLEY, BESSEMER, IRONWOOD, WAKEFIELD AND GOGEBIC,

ASHLAND, SUPERIOR and DULUTH, To all Fox River Manufacturing Oities

To all For River Manufacturing Cities
AND
The Lumbering Districts of Northern
Wisconsin and Michigan.

SPORTSMEN The best Fishing and Hunting in the NORTHWEST reached by the ASHLAND ROUTE. Send to the General Passenger and Tacket Agent for Descriptive and Illustrated Publications, Maps, Folders, Time Cards and General Information.

Milwaukee Office, 95 Wisconsin St. H. G. FLEITH. F. P. REGAN. Com. Freight Agt. Cuy Pass. & Tht. Agt.

B. F. WHITCOMB. GBO. S. MARSH. General Manager. Gen't Pass MILWAUKEE. Gen'l Pass. & Tkt. Agt.

SHORT LINE

Marquette, Negaunee, Ishpeming, Hancock, Houghton, Champion, Republic. Iron Mountain, Menominee, Mich.

Marinette, Green Bay, Depere, Neenah, Menasha, Appleton, Wis.

THE TABLE OF EXPRESS TRAINS.

. . DEPART. STATIONS. Champion, Republic, *1:85 A. M., *8:20 A. M. Iron Mountain, Menominee, Marinette, Green Bay, 3:10 P. M. 3:50 A. M. 3:55 P. M.

Green Bay, Depers, Apple 7:85 A. M. 7:55 A. M. 8:55 P. M. 8:10 P. M. 10:20 A. M.

*Daily. *Daily. except Monday. All other trains daily except Sunday. Pullman Sleeping Cars are run on all night trains, and are ready for occupancy at 9:00 P. M. New Passenger Station, Fourth Ward Park.

C. F. DUTTON, W. B. SHEARDOWN, General Ticket Agent General Manager.

H NIGHT IN CHICAGO

INDIANAPOLIS.

LOUISVILLE, NEW ALBANT & CHICAGO BY. HAS A TRAIN

Leaving ! Chicago AT 11:40 P. M.

EVERY NIGHT (Sundays included), with THROUGH COACHES and PULLMAN SLEEPERS, ARRIVING INDIANAPOLIS at 7:30 A. M.

ADDITIONAL TRAINS leave Chicago Ask your home Agent to make your tickets read via the MONON ROUTE, so your comfort may be assured. For further information, Sleeping Car erths, etc., call at

CITY TICKET OFFICE, No. 78 CLARK ST.

DEARBORN STATION, CHICAGO.

E. O. McCORMICK, Gen'l Pass. Agent. CHICAGO.

LIPPINCOTT'S MAGAZINE,

A LEADER AMONG LEADERS. Each number contains A COMPLETE NOVEL, as well as a liberal quantity of miscellaneous matter of an interesting and instructive nature. One year's subscription gives

A LIBRARY OF 12 COMPLETE NOVELS by American authors, together with AN ABUNDANCE OF SHORT STORIES, FORMS, ESSAYS, and mesters of un-

A VOLUME OF NEARLY 2000 PAGES. he best writers of the age have been secured and new fac-s will, from time to time, he added which will give to rescorr's

A DISTINCTIVE PLACE OF ITS OWN. élie Rives, Edgar Baitus, John Habberton, Edgar Fawcett, sin Charles King, U.S.A., Grace King, M. Elliott Seawell, a Dolaro, Maurice Barrymore, Outda, and many others contribute to its pages for 1899. For full prospectus, ad-dapplacet's Magazine, Philadelphia. 25 cents single cor. 83.69 per year. Send for sample copy.



THROUGH CAR LINE

WITH THROUGH CAR SERVICE BETWEEN

CINCINNATI and INDIANAPOLIS,

DINCINNATI and TOLEDO and DETROIT, CINCINNATI and CHICAGO,

CINCINNATI and ST. LOUIS

CINCINNATI and DAYTON and BICHMOND, CINCINNATI and FT. WAYNE and GRAND RAPIDS, CINCINNATI and GREENVILLE and VAN WERT.

With THROUGH RECLINING CHAIR CAR between

CINCINNATI, DECATUR and SPRINGFIELD, ILLS. and KEOKUK, IOWA, (daily)

PABLOR CHAIR CARS ON DAY, and SLEEPERS ON NIGHT TRAINS, "YEAR 'ROUND."

Ask for Tickets via C. H. & D. R. R.

For full information, Ticketa, Sleeping Car Space, &c., Inquire of or Address,

W. H. Fisher, Gen'l Agt., Indianapolis, Ind.
W. H. Whittiesey, Central Pass'r Agt., Dayton, O.

John Bastable, District Pass'r Agt., Toledo, O.

John Bastable, District Pass'r Agt., Toledo, O.

W. A. Wiggins, Southern Passenger Agent, Chattanooga, Tenn.

J. G. Massen, City Passenger Agent, Cincinnati, O.

W. Con W. Pourth St. Cincinnati, O.

Or General Passenger Agent's Office, - No. 200 W. Fourth St., Cincinnati, O. C. C. WAITE,

Vice-Pres't & Gen'l Manager.

CHAS. H. ROCKWELL, Gen'l Pass'r & Ticket Agent-

Milwaukee & Northern R. R. Chicago & Grand Trunk R'y

NIAGARA FALLS AIR LINE

Is the Shortest and Most Direct Route East.

THROUGH CLEAPING AND PARLOR CARS TO New York, Montreal and Boston.

The Only Line running Through Sleeping Care between CHICAGO and PHILADELPHIA

Via MIAGARA FALLS Without Change.

Trains leave Dearborn Station at 9.05 a. m., 3,25 p. m. and 8.15 p. m. 8.15 p. m. train has elegant Pullman Sleeping Car to Detroit daily. 2nd class tickets good on all trains.

W. E. DAVIS, B. H. HUGHES, B. C. MEDDATCH, Gen'l Pass's & Ticket Agent, CHICAGO. Gen'l Western Nor. Pass'r Ag't, Pass'r Agent, CHICAGO, 99 Wisconsin St., MILWAUKEE.

STEAMSHIP TICKETS

To or from Europe at lowest rates, by all lines Cabin plans can be consulted and best accommoda-tions secured as far in advance as desired.

Information furnished by mail or on application at office, 99 Wisconsin St., southwest cor. Broadway. B. C. MEDDAUGH, Gen'l S. S. Agent. MILWAUKEE, WIS.

CAWKER'S AMERICAN FLOUR MILL AND ELEVATOR DIRECTORY FOR 1888, issued March 3, is meeting with much praise from all departments of the trade. While not claimed by the publisher to be perfect, it answers FULLY the requirements of the trade. It is the only list published. The demand is limited and the price (Ten Dollars per copy) is cheap, considering the labor required in compiling, printing and selling. It contains lists of flour mill and grain elevator owners, micellaneous kinds of mills such as corn, rye, oatmeal, rice and feed mills, millwrights, flour brokers and dealers in various sections of the United States and Canada, and a good list of European flour and grain importers. Kind of power used, rolls or stones, capacity and millers supposed to be worth \$10,000 or more are indicated in thousands of cases.

If You Want the Earth, Here You Are!

THE "UNITED STATES MILLER" AND

Charming Complete Novels

ONE DOLLAR!

To Foreign Countries \$2.00, (8 Shillings English.)

These Novels are printed in pamphlet form, on good paper. They would cost you in the form of "Seaside" or other libraries, \$10.00. If you do not want to read the books yourself, divide them up among your friends. The regular subscription price of the U.S. MILLER alone is \$1.00 per year, and it is worth the money. We have been able to make a good bargain with an Eastern publisher and propose to give our subscribers the benefit of it. The following is the list of novels:

A Bartered Life. By Manion Habland. An Old Man's Sacrifice. By Mrs. Ann S. An Old Man's Sacrifice. By Mrs. Ann S. STPPHERS.

A Wicked Girl. By Mary Cecil. Hay.

A Low. Marriage. By Miss Mujock. Histrated, Under the Lilace. By the suttor of "Dora Thorn." The 'Strange Case of Dr. Jekyll and Mr. Hyde, By R. L. STEVINSON.

The Lawyer's Secret. By Miss M. E. Braddon. Fair but Faise, By the author of "Dora Thorne." Histrated of Hearts. By B. L. Farjeon.

The Mine of Hearts. By Floresce Warden.

EDW Jow's Fortune. By Floresce Warden.

EDW Jow's Stevenson.

A Playwright's Daughter. By Mrs. Annis Bowahos. Historical Petiers. By Mrs. Alexander. Forging the Petiers. By Mrs. Alexander. The Poison of Aspa. By Florence Marryat. Host Grange, By M. S. Histar Wood. Agatha's History. By Margary Blount. Ont of the Sea. By Clara Augusta. The Edward of a Storm. By Mrs. Jane G. Austin The Mary Gentles. By M. T. Ashon. By Mary Gentles. By Mrs. Mary Grange. By May Aones Flushing at Blackwood Grange. By May Aones Flushing at Blackwood Grange. By May Aones Flushing at Blackwood Grange. By May Gentles. Historical.

The Morwick Farm Mystery. By Wilkie Collists. Historical.

The Morwick Farm Mystery. By Wilkie Collists. Historical.

Retribution. By Margary Blount.

A Tale of Miss. By Mrs. Henry Wood.

A Fortune Hunter. By Annie Thomas. Historical In Outle's Net. By the author of "Dora Thorne."

The Knightsbridge Mystery, By CHARLES HEADS.

Rithfrated.
Ingledew House. By the author of "Dora Thorne."
A Passive Crime. By "THE DUCKESS."
Rose Ledge. By Mrs. HENRY WOOD.
A Bridge of Love. By the author of "Dora Thorne." Thorne "
The Fatal Marriage, By Miss M.E. BRADDON,
A Queen Amongst Women, By the author of "Dorn
Thorne"
The Blatchford Bequest, By Bross Conway.
The Curse of Carew, By the author of "Dorn
Thorne" A Shadow on the Threshold. By MARY CRCIL. HAY, be Patal Lilles. By the author of "Dora Thorne." briston's Gift. By Hugh Conway. Illustrated. force Bitter than Benth. By the author of "Dora Thorne." More Hitter than Death. By the author of "Dora Thorne."
Missor Mrs. ? By Wilkin Colling. Filmstrated.
In the Holidays. By Mary CHOIL HAY.
The Memantle Adventures of a Milkmaid.
By TROMAS HAMP.
A Dead Heart. By the author of "Dora Thorne."
Dark Days. By HUGH CONVAY.
Shadows on the Snew. By B. L. PARHON.
At the World's Mercy. By FLORENCE WARDER
Called Back.. By HUGH CONVAY.
Mildred Trevnaion. By "THE DECEMBE."
The Grey Weman. By Mrs. GARKELL. Illustrates.

Wedded and Parted. By the author of "Dora

Fill out the blank below, enclose \$1.00 and address plainly to

E. HARRISON CAWKER,

Publisher of the "United States Miller," Milwaukee, Wis.

1.00.			******	**********		1888.
ublisher	UNITED	STATES	MILLER.	Milwaukee,	Wis.	

Send the UNITED STATES MILLIAD which find enclosed

TIMD DIVID	TELLIFICATION	jor one	year	and ou	MODELE,	post paid, J	OΗ
One Dollar.							
Name							
	********	*******	*****				-

County...... State.....

[Would be pleased also to have you mention any particulars about your mill or elevator, capacity Fower, system, etc., and the name of HeadMiller

Post Office

MILWAUKEE BAG COMPANY,

Cotton, Paper and Jute

GRAIN & FLOUR SACKS

TWINES, CENTALS, etc.,

TELEPHONE NO. 427.

No. 134 West Water Street,

MILWAUKEE, WISCONSIN.

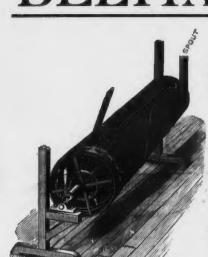
SCHEIRIN'S

GOLD SEAL RUBBER BELTING

372 & 374 EAST WATER STREET MILWAUKEE.

131 EAST THIRD STREET ST. PAUL.

201 NICOLLET AVENUE MINNEAPOLIS.



Patent Improved Cockle Machine.

The Most Durable, Simple and Efficient Machine for the purpose on the market.

CENTENNIAL MILLS, EVANSVILLE, IND., June 14, 1887. GENTLEMEN: - Enclosed please find check in payment of Cockle Machine sent us May 26, 1887. The Machine does its duty.

The Cockie Machine you sold us a year ago doing its work as well now as it did in the start and has not cost us a dime for repairs yet.

Respectfully yours,

J. W. LAUBSCHER & BRO

MANUFACTURED IN FOUR SIZES.

PRINZ & RAU MFG. CO.,

MILWAUKEE, WIS.

Write for Descriptive Pamphlet.

[Please mention this Paper when you write.]

Spring Whiffletree

WILLSON



Designed to Make the Burdens of Labor-ing Horses Easter, and to Keep them in Good Working Condition.

These trees will commend themselves to every owner of Laboring Horses, for the reason that the load is constantly balanced on the spring, making it impossible for the horse, harness or wagon to receive any sudden shock or jar. Some of the benefits derived from their use are as follows:

Prolongs the Life of the Horse; Prevents Sore Shoulders, Stiffness of Limbs, Reluctance in Pulling and Destruction of Harness.

Send for Catalogue and Prices.

AGENTS WANTED.

JEFFREY MFG.

169 E. 1st Ave., COLUMBUS, O., U. S. A.

FRATTINGER, City Tailor

389 Broadway,

MILWAUKEE.

THE GREATEST SUCCESS OF THE DAY!

Read what one of the leading millers says regarding

One machine will handle 4 Breaks in a 75 bbl. mill, or one Break in a 500 bbl. mill.

No scouring of Bran or Middlings, or Pulverizing of Stock. Break Flour as white as any in the mill.



In order to put in your scalpers on our 2d, 3d, 4th and 5th breaks and retain our hexagon scalpers for wheat cleaners, I was obliged to add another story to our roller room, at an expense of five times as the cost of the machines. much as the cost of the machines. Having now run the machines for

TESTIMONIAL.

DEAR SIRS:

Youngstown, O., Dec. 7, '88.

Having now run the machines for thirty days, I feel satisfied with the expenditure made, as I think we are now making the nicest flour we ever made. Our 2d, 3d, 4th and 5th break flour (we make eight breaks) is as white and clean as our patent, while our flour all through is the best we ever made. Our hexagon best we ever made. Our hexagon scalpers make excellent wheat cleaners, and your machines make excellent scalpers. The two com-bines make excellent flour.

MILWAUKEE, WIS

Respectfully yours, HOMER BALDWIN

For Prices, etc., address:

JAMES LEFFEL'S IMPROVED

Water Whee

The "OLD BELIABLE" with Improvements, making it the Most Fer-fect Turbine new in use, comprising the Largest and the Smallest wheels, under both the Highest and Lowest Heads in this country. Our new Pocket Wheel Book sent free. Address,

JAMES LEFFEL & CO., Springfield, Ohlo,

and 110 Liberty St., New York City. [Please mention this paper when you write to us.]



POOLE & HUNT'S Leffel Turbine Water Wheel

Made of best material and in best style of workmanship.

Machine Molded Mill Gearing

From 1 to 20 feet diameter, of any desired face or pitch, molded by our own SFE.
OIAL MACHINERY. Shafting, Pulleys, and Hangers, of the latest and most improved designs.

Mixers and General Outfit for Fertilizer Works. hipping Facilities the Best in all Direction

POOLE & HUNT, Baltimore, Md.

M. B.—Special attention given to Heavy Gearing for Pulp and Paper Mills. [Mention this paper when you write to us.]

